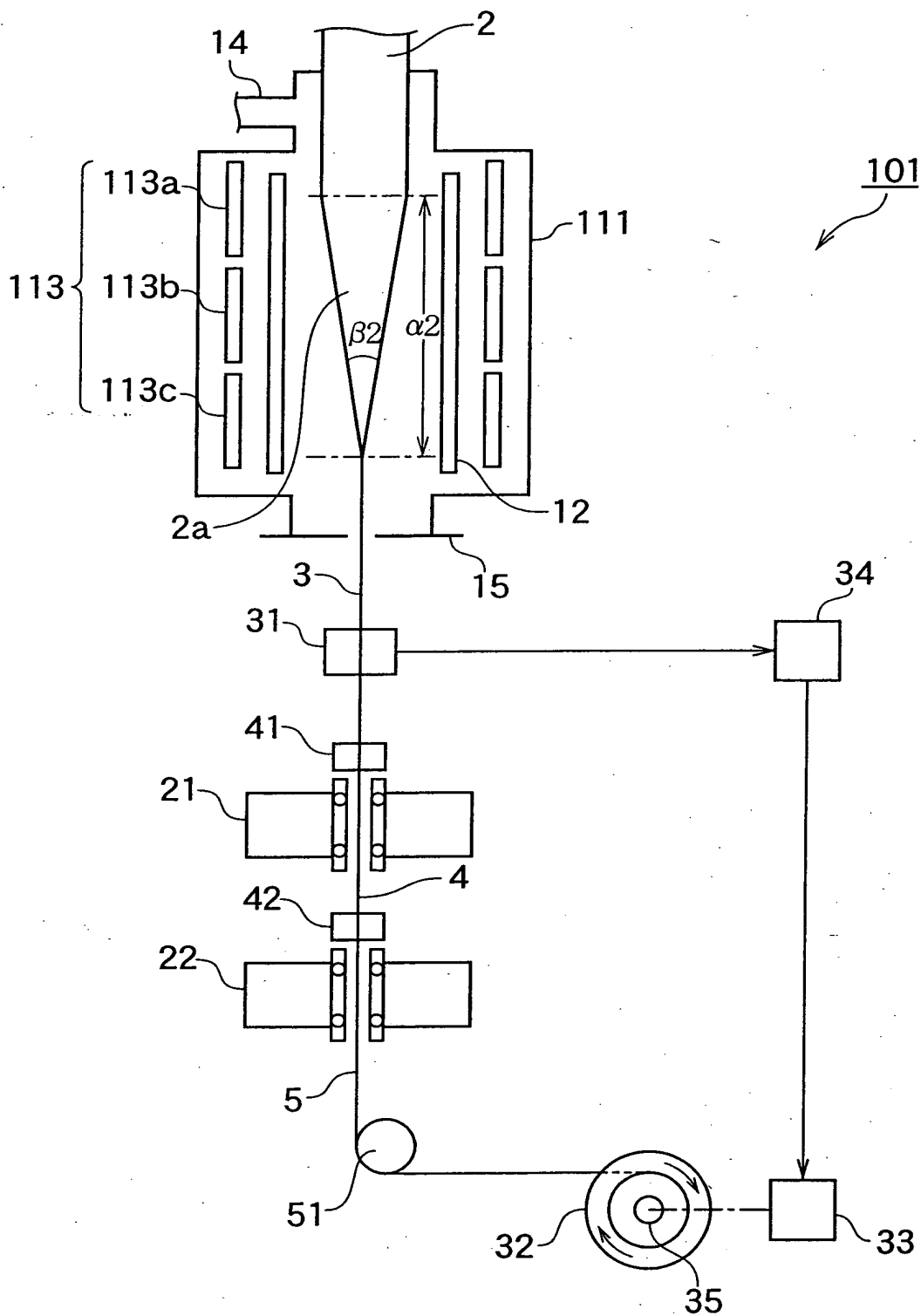


The diagram illustrates a laser processing apparatus (1). At the top, a laser head assembly includes a central nozzle (2) and side chambers (11, 12, 13). A laser beam (2a) is emitted from the nozzle. The nozzle tip is conical, with angles α_1 and β_1 defined. Below the nozzle is a workpiece (3). A control unit (31) is connected to the nozzle assembly. A motor (32) drives a pulley (35) which is part of a material handling mechanism (33). A sensor or detector (34) is positioned to monitor the process. Various components are numbered from 1 to 51.

Fig.2



204070" 055500T 10035330-010402

2040T0" 0E5E00T

Fig.3

